

# INFORMATION REPORT

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SOURCE

1. There are 1088 species of crop insects on Taiwan. The following are the most injurious to agricultural crops:

<u>Crop</u>	<u>Common name</u>	<u>Order</u>	<u>Family</u>	<u>Scientific name</u>
Rice	Rice borer	Lepidoptera	Pyralidae	Schoenobius insertellus
	Rice hispa	Coleoptera	Chrysomelidae	Hispa similis
	Lema beetle	"	"	Lema oryzae
	Leaf hopper	Hemiptera	Jassidae	Nilaparvata oryzae
	Leaf roller	Lepidoptera	Pyralidae	Sogota furcifera
Sweet potato	Sweet potato beetle	Coleoptera	Curculionidae	Cylas formicarius
	Sweet potato horn worm	Lepidoptera	Sphingidae	Herse convolvuli
Sugar cane	Wireworm	Coleoptera	Elateridae	Melanotus tamsuyensis
	June bug	"	Scarabaeidae	Allissonotum impressicollis
	Sugar cane borer	Lepidoptera	Pyralidae	Chilo infuscatellus
		"	"	Scirpophaga nivella
		"	"	Diatraea venosata
		"	Eucosmidae	Eucosma schistaceana
	Woolly aphis	Hemiptera	Aphididae	Cerotovacuna lanigera
Pineapple	Sugar cane borer	Lepidoptera	Noctuidae	Sesamia inferencia
	Mealy bug	Hemiptera	Coccidae	Pseudococcus brevipes
Banana	Banana weevil	Coleoptera	Curculionidae	Cosmopolites sordidus
	Fruit fly	Diptera	Trypetidae	Chaetodacus cucurbitae
Tobacco	Aphis	Homoptera	Aphididae	Myzus persicae
	Cut worm	Lepidoptera	Noctuidae	Agrotis ypsilon
	Bud worm	"	"	Chloridea assulta

CLASSIFICATION ~~CONFIDENTIAL-SECURITY~~ INFORMATION

[illegible]

## CONFIDENTIAL-SECURITY INFORMATION

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<u>Crop</u>	<u>Common name</u>	<u>Order</u>	<u>Family</u>	<u>Scientific name</u>
Citrus fruits	Fruit fly	Diptera	Trypetidae	Chaetodacus ferrugineus
	Trunk borer	Coleoptera	Cerambycidae	Melanauster chinensis
	Scale	Homoptera	Coccidae	Chrysomphalus aonidum
	Mealy bug	"	"	Icerya purchasi
	Scale	"	"	Lepidosaphes gloverii
Vegetable	Leaf beetle	Coleoptera	Chrysomelidae	Phaedon brassicas
	Flea beetle	"	"	Phyllotrata vittata
	Army worm	Lepidoptera	Noctuidae	Prodenia litura
	Aphis	Homoptera	Aphididae	Myzus persicae
	"	"	"	Rhopalosiphum pseudo-brassicae
Melon	Fruit fly	Diptera	Trypetidae	Chaetodacus cucurbitae
	Leaf beetles	Coleoptera	Chrysomelidae	Aulacophora similis
Tea		Lepidoptera	Psychidae	Clania preyeri
		"	Bombycidae	Andraca bipunctata
		"	Liparidae	Euproctis pseudoconsperas
		"	Gelechiidae	Sitotroga Cerealella
Stored foodstuff		Coleoptera	Tenebrionidae	Tenebrionidae mauritanicus
		"	Tenebrionidae	Tribolium ferruginum
		"	Curculionidae	Sitophilus oryzae

2. Surveys have shown that the principal agricultural crops of Taiwan suffer a 16% annual loss due to insect damage. The following control methods are in use now [1953] in Taiwan:

## (a) Biological control Methods

The introduction of the Australian lady beetle (*Rodolia cardinalis*) to destroy the cotton cushion scale (*Icerya purchasi*) in citrus fruit and the introduction of the large lady beetle (*Synonyoba grandis*) to destroy the wooly aphis in sugar cane have been largely successful. Parasite wasps are currently being introduced to control sugar cane borers.

## (b) Chemical Control Methods

10% DDT or BHC powder is dusted on the rice paddy fields to control rice hispa, lema beetle, rice leaf hopper, and rice leaf roller. A mixture of 1% BHC powder with the soil is effective in controlling soil insects in sugar cane. Rotenone emulsion is sprayed to control vegetable insects and aphids of other crops. Citrus scale is controlled by a spray of resin wash and lime sulphur. Mealy aphids of pineapple are fumigated with methyl bromide. Insects attacking stored foodstuff are kept under control by spraying a pyrenone emulsion of 1.25% D D T.

3. As yet no effective methods have been devised to control rice borers, which cause an annual 8% crop damage, banana curculis, fruit flies, or tea tree insects.

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